



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Ch2M Hill
1770 Iowa Ave Suite 200
Riverside, CA 92507-

Number of Pages 4
Date Received 10/15/2014
Date Reported 10/17/2014

Telephone: (951)276-3003
Attention: Tom Perina

Job Number	Order Date	Client
74730	10/15/2014	CH2M,R

Project ID: 10006-7-100263
Project Name: Omega Chemical
Site: Whittier, CA

Enclosed please find results of analyses of 8 ground water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By:

Approved By:

Cyrus Razmara, Ph.D.
Laboratory Director

USEPA CLP COC (LAB COPY)

Date Shipped: 10/15/2014

Carrier Name: Lab Pickup

Airbill No:

CHAIN OF CUSTODY RECORD

No: 9-101514-101639-0004

Lab: AETL

Lab Contact: Jim

Lab Phone: 818-845-8200

DAS #:

Cooler #:

CH2M HILL - Tom Perina (951) 318-2341





Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
44519-0012	MW-15	Ground Water/ Mike Palm	Grab	Cr+6	A (None) (1)	12	10/15/2014 09:50	74730-01
44519-0014	MW-3	Ground Water/ Mike Palm	Grab	Cr+6	A (None) (1)	14	10/15/2014 11:35	74730-02
44519-0010	MW-4A	Ground Water/ Mike Palm	Grab	Cr+6	A (None) (1)	10	10/15/2014 08:55	74730-03
44519-0011	MW-4A Dup	Ground Water/ Mike Palm	Grab	Cr+6	A (None) (1)	11	10/15/2014 09:05	74730-04
44519-0009	MW-4B	Ground Water/ Mike Palm	Grab	Cr+6	A (None) (1)	9	10/15/2014 08:25	74730-05
44519-0008	MW-4C	Ground Water/ Mike Palm	Grab	Cr+6	A (None) (1)	8	10/15/2014 07:55	74730-06
44519-0013	MW-5	Ground Water/ Mike Palm	Grab	Cr+6	A (None) (1)	13	10/15/2014 10:30	74730-07
44519-0015	MW-7	Ground Water/ Mike Palm	Grab	Cr+6	A (None) (1)	15	10/15/2014 12:35	74730-08

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cr+6=Hexavalent Chromium

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		10-15-14 1230		10-15-14 1330	
		10-15-14 1448		10/15/14 1445	



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COOLER RECEIPT FORM

Client Name: <u>CH2M Hill</u>			
Project Name:			
AETL Job Number: <u>74730</u>			
Date Received: <u>10/15/14</u>		Received by: <u>Artin</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>1</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3-2°C</u> , No 2: , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input type="checkbox"/> Wide mouth jars, <input checked="" type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <u>HNO₃</u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na₂S₂O₃</u> , <u>MeOH</u>			
<u>Other (Specify):</u>			
	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	<u>X</u>		
2. Are the Sample labels legible?	<u>X</u>		
3. Do samples match the COC?	<u>X</u>		
4. Are the required analyses clear?	<u>X</u>		
5. Is there enough samples for required analysis?	<u>X</u>		
6. Are samples sealed with evidence tape?	<u>X</u>		
7. Are sample containers in good condition?	<u>N/A</u>		
8. Are samples preserved?	<u>X</u>		
9. Are samples preserved properly for the intended analysis?	<u>X</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>↓</u>		

Explain all "No" answers for above questions:



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Ordered By

Ch2M Hill
1770 Iowa Ave Suite 200
Riverside, CA 92507-

Project ID: 10006-7-100263
Date Received 10/15/2014
Date Reported 10/17/2014

Telephone: (951) 276-3003
Attention: Tom Perina

Job Number	Order Date	Client
74730	10/15/2014	CH2M, R

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 8 samples with the following specification on 10/15/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74730.01	MW-15	10/15/2014	Aqueous	1
74730.02	MW-3	10/15/2014	Aqueous	1
74730.03	MW-4A	10/15/2014	Aqueous	1
74730.04	MW-4A DUP	10/15/2014	Aqueous	1
74730.05	MW-4B	10/15/2014	Aqueous	1
74730.06	MW-4C	10/15/2014	Aqueous	1
74730.07	MW-5	10/15/2014	Aqueous	1
74730.08	MW-7	10/15/2014	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
218.6	10/22/2014	2	Normal	ug/L

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

The samples were analyzed within the holding time in accordance with the EPA Methods given in the attached work order form.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the condition detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



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ANALYTICAL RESULTS

Ordered By**Site**

Ch2M Hill
1770 Iowa Ave
Suite 200
Riverside, CA 92507-

Whittier, CA

Telephone: (951)276-3003

Attn: Tom Perina

Page: 2

Project ID: 10006-7-100263

Project Name: Omega Chemical

AETL Job Number	Submitted	Client
74730	10/15/2014	CH2M, R

Method: 218.6, Chromium hexavalent by Ion Chromatography

QC Batch No: 101514-1

Our Lab I.D.		Method Blank	74730.01	74730.02	74730.03	74730.04
Client Sample I.D.			MW-15	MW-3	MW-4A	MW-4A DUP
Date Sampled			10/15/2014	10/15/2014	10/15/2014	10/15/2014
Date Prepared		10/15/2014	10/15/2014	10/15/2014	10/15/2014	10/15/2014
Preparation Method		218.6	218.6	218.6	218.6	218.6
Date Analyzed		10/15/2014	10/15/2014	10/15/2014	10/15/2014	10/15/2014
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
Units		ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Chromium (VI)	0.02	0.05	ND	5.53	6.52	7.41



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ANALYTICAL RESULTS

Ordered By**Site**

Ch2M Hill
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Whittier, CA

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Project ID: 10006-7-100263

Project Name: Omega Chemical

AETL Job Number	Submitted	Client
74730	10/15/2014	CH2M, R

Method: 218.6, Chromium hexavalent by Ion Chromatography

QC Batch No: 101514-1

Our Lab I.D.		74730.05	74730.06	74730.07	74730.08	
Client Sample I.D.		MW-4B	MW-4C	MW-5	MW-7	
Date Sampled		10/15/2014	10/15/2014	10/15/2014	10/15/2014	
Date Prepared		10/15/2014	10/15/2014	10/15/2014	10/15/2014	
Preparation Method		218.6	218.6	218.6	218.6	
Date Analyzed		10/15/2014	10/15/2014	10/15/2014	10/15/2014	
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	
Units		ug/L	ug/L	ug/L	ug/L	
Dilution Factor		1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results
Chromium (VI)	0.02	0.05	6.93	42.5	7.41	3.48



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QUALITY CONTROL RESULTS

Ordered By**Site**

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Suite 200
Riverside, CA 92507-

Whittier, CA

Telephone: (951)276-3003

Attn: Tom Perina

Page: 4

Project ID: 10006-7-100263

Project Name: Omega Chemical

AETL Job Number	Submitted	Client
74730	10/15/2014	CH2M, R

Method: 218.6, Chromium hexavalent by Ion Chromatography

QC Batch No: 101514-1; Dup or Spiked Sample: 74730.01; LCS: Clean Water; QC Prepared: 10/15/2014; QC Analyzed: 10/15/2014;
Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	5.53	10.0	13.7	81.7	10.0	13.1	75.7	7.6	70-140	<20

QC Batch No: 101514-1; Dup or Spiked Sample: 74730.01; LCS: Clean Water; QC Prepared: 10/15/2014; QC Analyzed: 10/15/2014;
Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	10.0	9.73	97.3	10.0	10.2	102	4.7	70-140	<20	



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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference
